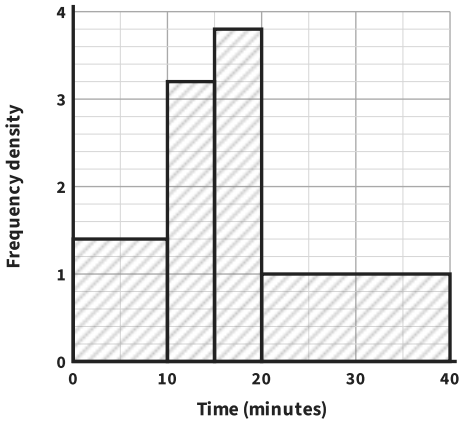
Histograms: Reading Histograms

1 frequency = frequency density × class width

Use the histogram to complete the table.

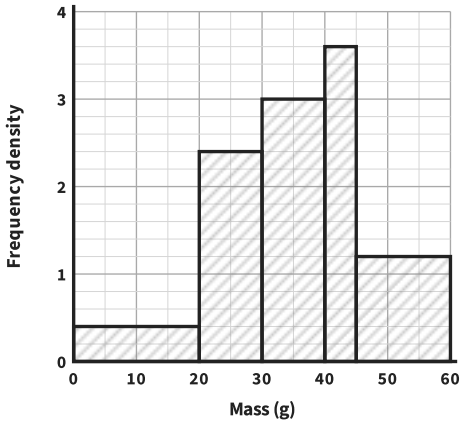
Time (minutes)	Class width	Frequency density	Frequency
$0 < t \leq 10$	**10**	**1.4**	**14**
$10 < t \leq 15$	**5**		
$15 < t \leq 20$	**5**		
$20 < t \leq 40$	**20**		



2

Use the histogram to complete the table.

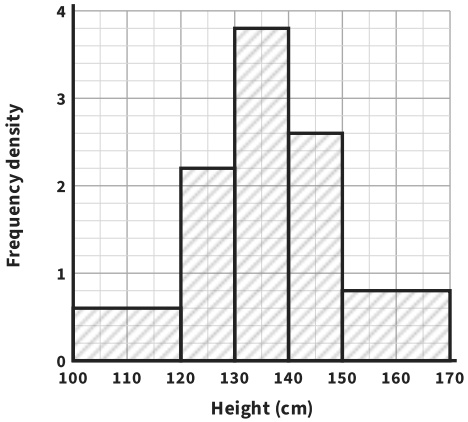
Mass (g)	Class width	Frequency density	Frequency
$0 < m \leq 20$	**20**	**0.4**	**8**
$20 < m \leq 30$			
$30 < m \leq 40$			
$40 < m \leq 45$			
$45 < m \leq 60$			



3

Use the histogram to complete the table.

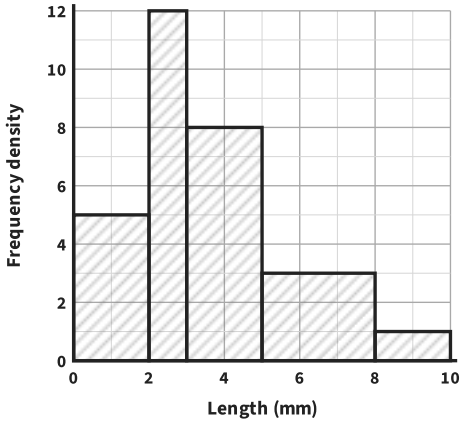
Height (cm)	Class width	Frequency density	Frequency
$100 < h \leq 120$	**20**	**0.6**	**12**
$120 < h \leq 130$			
$130 < h \leq 140$			
$140 < h \leq 150$			
$150 < h \leq 170$			



4

Use the histogram to complete the table.

Length (mm)	Class width	Frequency density	Frequency
$0 < l \leq 2$	**2**	**5**	**10**
$2 < l \leq 3$			
$3 < l \leq 5$			
$5 < l \leq 8$			
$8 < l \leq 10$			



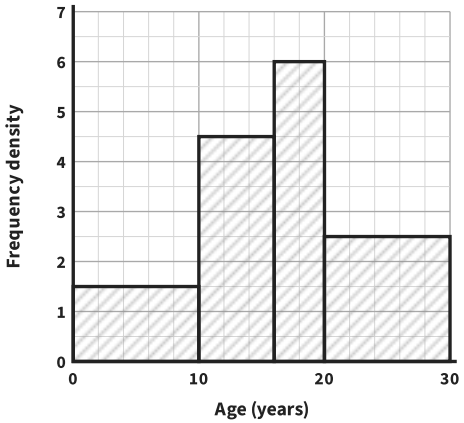
Histograms: Reading Histograms

5

Use the histogram to complete the table. How many people are there altogether?

Age (years)	Class width	Frequency density	Frequency
$0 < a \leq 10$			
$10 < a \leq 16$			
$16 < a \leq 20$			
$20 < a \leq 30$			

Total _____



6

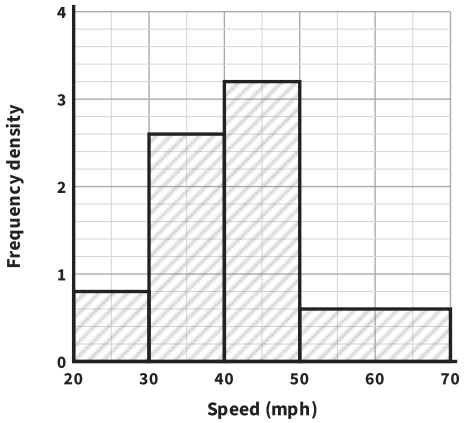
Estimate how many cars were going between 40 and 60 mph.

_____

_____

_____

Estimate _____



7

Estimate how many people took between 25 and 50 seconds.

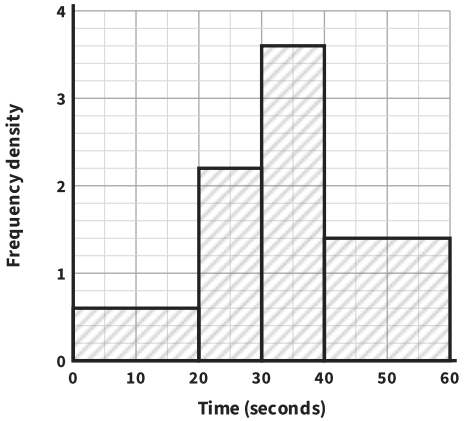
_____

_____

_____

_____

Estimate _____



8

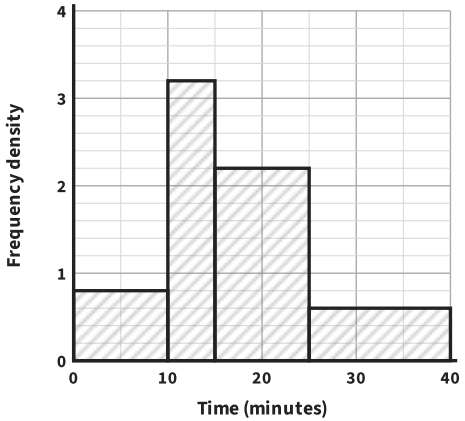
Explain Sam's mistake. How many people took between 10 and 15 minutes?

Sam says that 3.2 people took between 10 and 15 minutes.

_____

_____

People _____

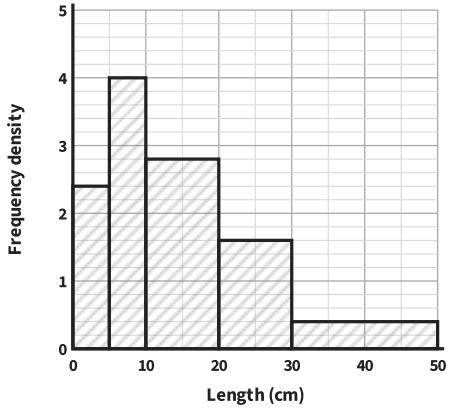


Histograms: Reading Histograms *further practice*

9

Use the histogram to find the frequency of each class.

Length (cm)	Frequency
$0 < l \leq 5$	
$5 < l \leq 10$	
$10 < l \leq 20$	
$20 < l \leq 30$	
$30 < l \leq 50$	



10

Estimate how many people waited more than 12 minutes.

Estimate _____

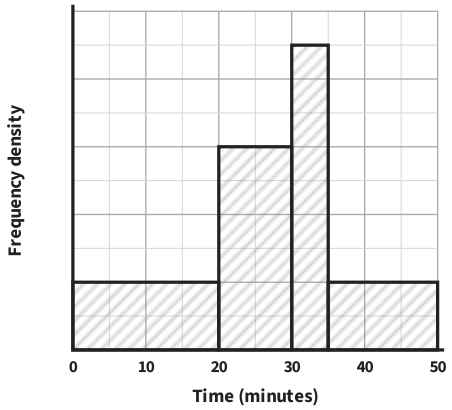


11

There are no numbers up the side. The bar for $20 < t \leq 30$ shows 24 people. Complete the table.

Time (minutes)	Frequency
$0 < t \leq 20$	
$20 < t \leq 30$	**24**
$30 < t \leq 35$	
$35 < t \leq 50$	

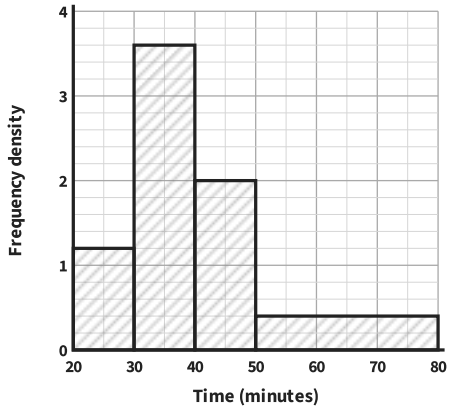
_____



12

The histogram shows the times of every runner in a race. What percentage of the runners took more than 40 minutes?

Percentage _____

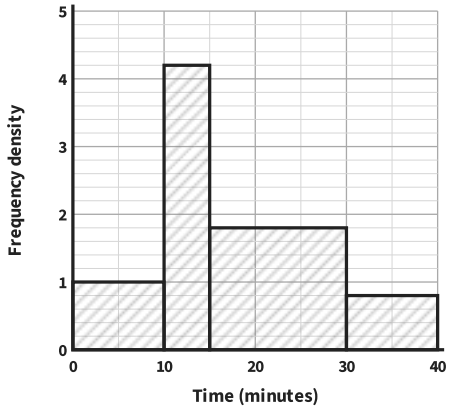


Histograms: Reading Histograms *further practice*

13

Which class has more people, $10 < t \leq 15$ or $15 < t \leq 30$? How many more?

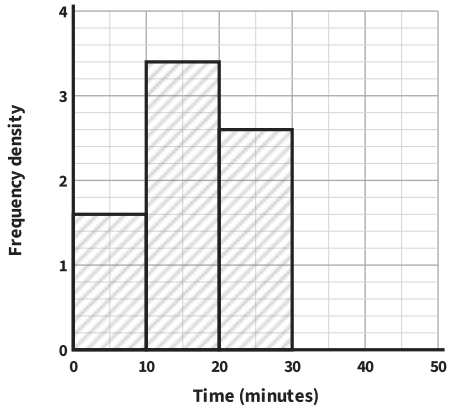
Answer _____



14

There are 100 people altogether. The bar for $30 < t \leq 50$ is missing. Draw it.

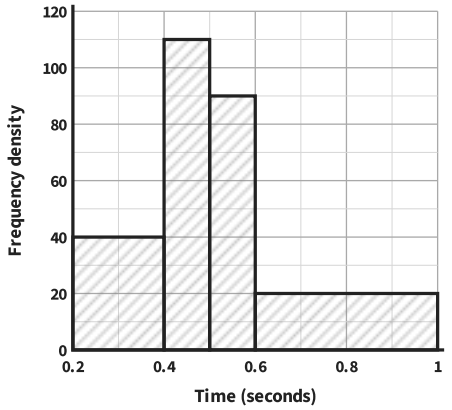
Height _____



15

The histogram shows reaction times. Estimate how many were between 0.3 and 0.6 seconds.

Estimate _____



16

Explain Ali's mistake. Then estimate the number between 25 and 35.

Ali estimates the number between 25 and 35 as 24 + 30 = 54.

Estimate _____

